

WHAT IS CLAIMED IS:

1. A liquid reservoir apparatus comprising a storage which stores a liquid, a negative pressure introducing portion which introduces a negative pressure into said storage, a liquid intake portion which takes the liquid into said storage with the negative pressure introduced from said negative pressure introducing portion, a liquid reservoir which is provided in said storage to hold the liquid stored in said storage, a liquid supply port which is provided to said storage to supply the liquid stored in said storage, a gas/liquid separating member which transmits only a gas therethrough, and negative pressure generating means for drawing air in said storage by suction to effect the negative pressure,

wherein said liquid reservoir has a plurality of thin bodies provided at gaps from each other in said storage, so that the liquid in said storage is held by a capillary force generated by said thin bodies, and

a liquid guide portion, which is set at a gap between one end of said liquid reservoir and an inner wall of said storage, is provided so that the capillary force in the vicinity of the liquid supply port is larger than that of said liquid reservoir.

2. The apparatus according to claim 1, wherein said gas/liquid separating member is provided to said negative pressure introducing portion or at a position

corresponding to said negative pressure introducing portion.

3. The apparatus according to claim 1, wherein the inner wall of said storage has a groove, at a position
5 adjacent to said liquid introducing portion, which generates a capillary force larger than that of said liquid introducing portion.

4. The apparatus according to claim 1, wherein the gaps among said thin bodies in said liquid reservoir
10 gradually increase as the gaps are more distant from said liquid introducing portion.

5. The apparatus according to claim 1, wherein the gaps among said thin bodies in said liquid reservoir fall within a range of 0.05 mm (inclusive) to 0.5 mm
15 (inclusive).

6. The apparatus according to claim 1, wherein the capillary force of said liquid reservoir falls within a range of 30 Pa (inclusive) to 2,000 Pa (inclusive).

7. The apparatus according to claim 1, wherein said
20 gas/liquid separating member is porous and subjected to a repellent treatment.

8. The apparatus according to claim 1, wherein said gas/liquid separating member is a gas permeable film made of a porous material and subjected to a repellent
25 treatment.

9. The apparatus according to claim 1, wherein said gas/liquid separating member is a gas permeable film

made of a porous resin material and subjected to a repellent treatment.

10. A printer comprising a liquid reservoir apparatus according to claim 1, wherein the printer prints by
5 discharging ink through a printhead.